CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.06/RN/CSR-06/057m/CEMENT/2016-17 Date: 06.06.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer**, Byatarayanapura Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. R. Nithin,** No.58, Muneshwara Layout, 5th cross, Bangalore - 91.
*NAME OF THE WORK	:	Improvements to Roads and Drains at Thanisandra Govt School backside & Anjanadri Layout in Ward No.06 Byatarayanapura Sub Division, BBMP, Bangalore.
*REFERENCE	:	BBMP/EE/BTP/WO/13/2016-17 Dated: 30.04.2016
SAMPLE ID	:	Cement – Sample 3
SAMPLE RECEIVED ON	:	04.06.2016
PERIOD OF TESTING	:	04.06.2016 to 06.06.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	485 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/W.No.06/RN/CSR-06/057m/SAND-Gradation/2016-17 : 06.06.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. R. Nithin,**
No.58, Muneshwara Layout, 5th cross, Bangalore - 91.

*** Name of Work** : Improvements to Roads and Drains at Thanisandra Govt School backside & Anjanadri Layout in Ward No.06 Byatarayanapura Sub Division, BBMP,

Reference : BBMP/EE/BTP/WO/13/2016-17 Dated: 30.04.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates – Sample 3

Sample Received on : 04.06.2016

Date of Testing : 06.06.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	96.00	90-100	90-100	90-100	95-100
2.36	78.00	60-95	75-100	85-100	95-100
1.18	56.50	30-70	55-90	75-100	90-100
600 Micron	28.00	15-34	35-59	60-79	80-100
300 Micron	15.00	5-20	8-30	12-40	15-50
150 Micron	5.20	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.06/RN/CSR-06/057m/AGG/GR/2016-17 : 06.06.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. R. Nithin,**
No.58, Muneshwara Layout, 5th cross, Bangalore - 91.

*** Name of Work** : Improvements to Roads and Drains at Thanisandra Govt School backside & Anjanadri Layout in Ward No.06 Byatarayanapura Sub Division, BBMP, Bangalore.

Reference : BBMP/EE/BTP/WO/13/2016-17 Dated: 30.04.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm) - Sample 3

Sample Received on : 04.06.2016

Date of Testing : 06.06.2016

Total Wt. of Aggregates in gms= **7000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.21	95-100	85-100
20	36.50	30-70	0-20
10	18.21	10-35	0-5
4.75	2.50	0-5	-

AE-06 n/a

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.06/RN/CSR-06/057m/AGG/GR/2016-17 : 06.06.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. R. Nithin,**
No.58, Muneshwara Layout, 5th cross, Bangalore - 91.

*** Name of Work** : Improvements to Roads and Drains at Thanisandra Govt School backside & Anjanadri Layout in Ward No.06 Byatarayanapura Sub Division, BBMP, Bangalore.

*** Reference** : BBMP/EE/BTP/WO/13/2016-17 Dated: 30.04.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (20mm) – Sample 3

Sample Received on : 04.06.2016

Date of Testing : 06.06.2016

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2007)	
		Graded	Single Sized
40	100	100	100
20	96.40	95-100	85-100
10	32.40	25-55	0-20
4.75	6.40	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/W.No.06/RN /STEEL/2016-17 20.06.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer**, Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. R. Nithin,** No.58, Muneshwara Layout, 5th cross, Bangalore - 91.
Name of the Work	:	Improvements to Roads and Drains at Thanisandra Govt School backside & Anjanadri Layout in Ward No.06 Byatarayanapura Sub Division, BBMP, Bangalore.
Reference	:	BBMP/EE/BTP/WO/13/2016-17 Dated: 30.04.2016
Date of Test	:	20.06.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	12	0.89	515	558	13.25	O.K	O.K

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Job No.: CTCE/BBMP/W.No.06/RN /STEEL/2016-17 20.06.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer : **Asst. Executive Engineer**, Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Mr. R. Nithin,** No.58, Muneshwara Layout, 5th cross, Bangalore - 91.

Name of the Work : Improvements to Roads and Drains at Thanisandra Govt School backside & Anjanadri Layout in Ward No.06 Byatarayanapura Sub Division, BBMP, Bangalore.

Reference : BBMP/EE/BTP/WO/13/2016-17 Dated: 30.04.2016

Date of Test : 20.06.2016

Technical Reference : IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	16	1.58	520	563	13.40	O.K	O.K

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T-2377

Job No.: CTCE/BBMP/W.No.06/RN/CSR-06/057m/CUBE/2016-17 21.07.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. R. Nithin,**
No.58, Muneshwara Layout, 5th cross, Bangalore - 91.

*** Name of the work** : Improvements to Roads and Drains at Thanisandra Govt School backside & Anjanadri Layout in Ward No.06 Byatarayanapura Sub Division, BBMP, Bangalore.

*** Reference** : BBMP/EE/BTP/WO/13/2015-16 Dated: 30.04.2016

*** Sample ID** : Culvert Deck Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 21.07.2016

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Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.06.2016	21.07.2016	8.128	482.5	21.44
2	23.06.2016	21.07.2016	8.289	490.3	21.79
3	23.06.2016	21.07.2016	8.315	502.3	22.32

* Information is furnished by the Customer/Representative

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Job No.: CTCE/BBMP/W.No.06/RN/CSR-06/057m/CUBE/2016-17 23.07.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. R. Nithin,**
No.58, Muneshwara Layout, 5th cross, Bangalore - 91.

*** Name of the work** : Improvements to Roads and Drains at Thanisandra Govt School backside & Anjanadri Layout in Ward No.06 Byatarayanapura Sub Division, BBMP, Bangalore.

*** Reference** : BBMP/EE/BTP/WO/13/2015-16 Dated: 30.04.2016

*** Sample ID** : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 23.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.06.2016	23.07.2016	8.110	475.5	21.13
2	25.06.2016	23.07.2016	8.290	492.3	21.88
3	25.06.2016	23.07.2016	8.315	506.3	22.50

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Job No.: CTCE/BBMP/W.No.06/RN/CSR-06/057m/CUBE/2016-17 23.07.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* **Customer**	: **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* **Agency**	: **Mr. R. Nithin,** No.58, Muneshwara Layout, 5th cross, Bangalore - 91.
* **Name of the work**	: Improvements to Roads and Drains at Thanisandra Govt School backside & Anjanadri Layout in Ward No.06 Byatarayanapura Sub Division, BBMP, Bangalore.
* **Reference**	: BBMP/EE/BTP/WO/13/2015-16 Dated: 30.04.2016
* **Sample ID**	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* **Grade of Concrete**	: M_{20}
Compressive Strength as on	: 28th day
Sample Received on	: 23.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.06.2016	23.07.2016	8.185	482.5	21.44
2	25.06.2016	23.07.2016	8.235	498.6	22.16
3	25.06.2016	23.07.2016	8.315	520.2	23.12

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Job No.: CTCE/BBMP/W.No.06/RN/CSR-06/057m/CUBE/2016-17 25.07.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. R. Nithin,**
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*** Name of the work** : Improvements to Roads and Drains at Thanisandra Govt School backside & Anjanadri Layout in Ward No.06 Byatarayanapura Sub Division, BBMP, Bangalore.

*** Reference** : BBMP/EE/BTP/WO/13/2015-16 Dated: 30.04.2016

*** Sample ID** : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 25.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.06.2016	25.07.2016	8.180	478.3	21.26
2	27.06.2016	25.07.2016	8.256	491.5	21.84
3	27.06.2016	25.07.2016	8.325	502.3	22.32

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. R. Nithin,**
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*** Reference** : BBMP/EE/BTP/WO/13/2015-16 Dated: 30.04.2016

*** Sample ID** : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 25.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.06.2016	25.07.2016	8.289	485.5	21.58
2	27.06.2016	25.07.2016	8.318	496.8	22.08
3	27.06.2016	25.07.2016	8.475	502.3	22.32

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Job No.: CTCE/BBMP/W.No.06/RN/CSR-06/057m/CUBE/2016-17 26.07.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. R. Nithin,**
No.58, Muneshwara Layout, 5th cross, Bangalore - 91.

*** Name of the work** : Improvements to Roads and Drains at Thanisandra Govt School backside & Anjanadri Layout in Ward No.06 Byatarayanapura Sub Division, BBMP, Bangalore.

*** Reference** : BBMP/EE/BTP/WO/13/2015-16 Dated: 30.04.2016

*** Sample ID** : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 26.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.06.2016	26.07.2016	8.098	475.5	21.13
2	28.06.2016	26.07.2016	8.187	490.3	21.79
3	28.06.2016	26.07.2016	8.260	506.3	22.50

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Job No.: CTCE/BBMP/W.No.06/RN/CSR-06/057m/CUBE/2016-17 26.07.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. R. Nithin,**
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*** Name of the work** : Improvements to Roads and Drains at Thanisandra Govt School backside & Anjanadri Layout in Ward No.06 Byatarayanapura Sub Division, BBMP, Bangalore.

*** Reference** : BBMP/EE/BTP/WO/13/2015-16 Dated: 30.04.2016

*** Sample ID** : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 26.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.06.2016	26.07.2016	8.127	475.5	21.13
2	28.06.2016	26.07.2016	8.258	493.3	21.92
3	28.06.2016	26.07.2016	8.357	502.2	22.32

* Information is furnished by the Customer/Representative

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

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